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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [12/2022 -]
Title: THEFT DETERRENT / KEYLESS ENTRY: SMART KEY SYSTEM (for Start Function): B228562; Steering Lock Position Signal Compare Failure; 2023 - 2024 MY Prius Prius Prime [12/2022 -]		

DTC	B228562	Steering Lock Position Signal Compare Failure
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DESCRIPTION

This DTC is stored when there is no continuity between terminal SLP of the certification ECU (smart key ECU assembly) and ground.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	DTC OUTPUT FROM	PRIORITY	NOTE
B228562	Steering Lock Position Signal Compare Failure	This DTC is stored when there is no continuity between terminal SLP of the certification ECU (smart key ECU assembly) and ground.	<ul style="list-style-type: none"> • Certification ECU (smart key ECU assembly) • Wire harness or connector 	Power Source Control	B	<p>DTC Output Confirmation Operation:</p> <p>Disconnect the cable from the negative (-) auxiliary battery terminal, wait 30 seconds and then reconnect the cable to the negative (-) auxiliary battery terminal. Wait at least 40 seconds with the ignition switch off, then turn the ignition switch to ON and wait at least 40 seconds.</p>

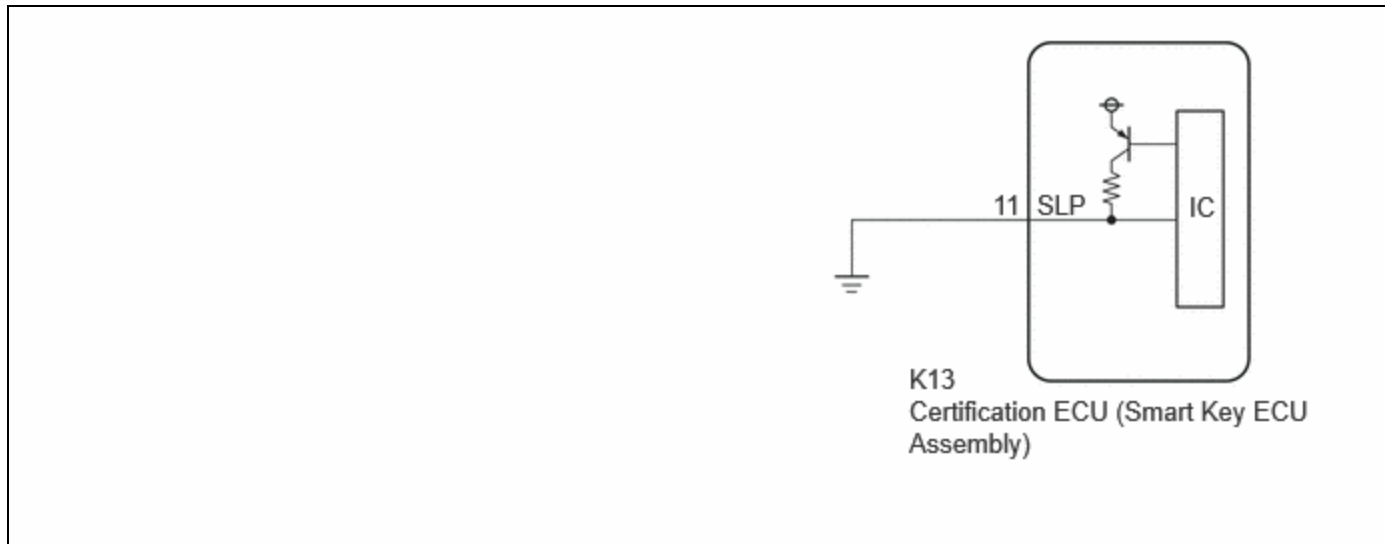
Vehicle Condition and Fail-safe Function when Malfunction Detected

VEHICLE CONDITION WHEN MALFUNCTION DETECTED	FAIL-SAFE FUNCTION WHEN MALFUNCTION DETECTED
The hybrid control system cannot be started.	The ECU does not send a hybrid control system start request.

Related Data List and Active Test Items

DTC NO.	DATA LIST AND ACTIVE TEST
B228562	-

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

- When using the GTS with the ignition switch off, perform lock and unlock operations using the door control switch of the multiplex network master switch assembly at intervals of 1.5 seconds or less until communication between the GTS and the vehicle begins, and then select the vehicle model manually.

Then select Model Code "KEY REGIST" under manual mode and enter the following menus: Body Electrical / Smart Key(CAN). While using the GTS, periodically perform lock and unlock operations using the door control switch of the multiplex network master switch assembly at intervals of 1.5 seconds or less to maintain communication between the GTS and the vehicle.

- The smart key system (for Start Function) uses the LIN communication system and CAN communication system. Inspect the communication function by following How to Proceed with Troubleshooting. Troubleshoot the smart key system (for Start Function) after confirming that the communication systems are functioning properly.

Click here [INFO](#)

- Inspect the fuses for circuits related to this system before performing the following procedure.
- Before replacing the certification ECU (smart key ECU assembly), refer to Registration.

Click here [INFO](#)

- After repair, confirm that no DTCs are output by performing "DTC Output Confirmation Operation".

PROCEDURE

1.	CHECK FOR DTC
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(a) Check for DTCs.

Body Electrical > Smart Key > Trouble Codes

RESULT	PROCEED TO
B278588 is not output	A
B278588 is output	B

B  **GO TO DTC B278588**

A


2.	CHECK HARNESS AND CONNECTOR (CERTIFICATION ECU (SMART KEY ECU ASSEMBLY) - BODY GROUND)
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Pre-procedure1

(a) Disconnect the K13 certification ECU (smart key ECU assembly) connector.

Procedure1

(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



[Click Location & Routing\(K13\).](#)

[Click Connector\(K13\).](#)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
K13-11 (SLP) - Body ground	Always	Below 1 Ω	Ω

Post-procedure1

(c) None

OK  **REPLACE CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)** 

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

